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Work Orde Wednesday, Aug											Page 1
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Start Date: Required Date: Reference:	8/25/2010 9/3/2010	Start Qty: 1.00 Req'd Qty: 1.00			Cust Item I Customer:	D:				1 1 15 4(1 6) 8	
Approvals:	Process Pla	an:	Date:	Tooling: SPC (Y/N):		ate:		F	tun Sta Sto		
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110				0.00							

CNC Bend I

BENDING MACHINE - SKIDTUBES

Memo

0.00

CNC Delta 100 Bender 1-Bend as per program D2580.C on CNC Bender and Folio 16

2-Cut tubes as per Dwg. D2580

3- scribe batch# in aft end of tube

W/O:			WORK ORDER					
DATE	STEP	PR	OCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	\ <u>•</u>	PAR #:	Fault Category:	NCR: Yes	No DO	Δ-	Date:	

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Work Order ID 61421

Wednesday, August 25, 2010 8:53:20 AM



Page 2

Item ID:

D205-634-041

Accept

Setup Start

Stop



Revision ID:

Item Name:

Replacement Skidtube

Start Date:

8/25/2010

Start Qty: 1.00

Required Date: 9/3/2010

Req'd Qty: 1.00



Cust Item ID: Customer:

Reference:

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Process Plan:

Operation

Description

Date:_____

Tooling: SPC (Y/N):

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0.00

Set Up/

Run Hours

Tool ID

Date:

Tool # Plan

Code

Date:

Run Start

Reject

Qty

Accept

Qty

Reject

Number

Stop



Insp.

Stamp

Sequence ID/ **Work Center ID**

120

Skidtubes

Memo

Date: _____

Skidtubes 1- Deburr ends

2- C'sink holes as per dwg without cutting fluid

3- Prepare tube for welding, remove alodine as required.

130

QC5- Inspect part completeness to step on W/O

0.00

Memo

0.00

Quality Control

W/O:			WO	RK ORDER CHANG	iES	-	v.**	
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Work Order ID 61421

Wednesday, August 25, 2010 8:53:20 AM

D205-634-041



Page 3

Item ID: ...

Accept



Setup Start



Revision ID: "

Item Name:

Replacement Skidtube

Start Date:

8/25/2010

Start Qty: 1.00

Required Date: 9/3/2010

Req'd Qty: 1.00



Date:

Cust Item ID: Customer:

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Process Plan:

QC:

Operation

Date:

Tooling:

SPC (Y/N):

Set Up/

Date:

Date:

Run

Start



Stop



Sequence ID/ Work Center ID

140



Skidtubes Skidtubes

Description

Run Hours 0.00

Tool ID

Tool # Plan

Accept Code Qty

Reject Qty

Reject Number

Insp. Stamp

Memo

0.00

1-Weld step D2576 as per Dwg. D2580 and OSI 009 A/R□□□ Aluminum Rod

BE 10/09/07

2-Prep per QSI 005 and weld crossbolt spacers D2579 as per Dwg. D2580, QSI

For D2579 spacers, weld one side, pass 3/8" drill, weld other side, pass 3/8" drill A/R□□□ Aluminum Rod

3-Grind welds as per Dwg D2580 Grind flush ridge made from bending

4-Drill holes for wearplates using DT 8217 & DT8937 Open holes to 19/64", adjust stopper not to hit web.Deburr

5-Counterbore crossbolt spacers to 7/16" ID x 1.0" deep as per Dwg D2580. ~ Deburr holes

- 6-Drill pilot holes for aft cap using DT 8215Open holes to 0.208". Deburr

7-Drill pilot holes for Tow ring using DT8091, open to .640" and Deburr



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Work Order ID 61421

Wednesday, August 25, 2010 8:53:20 AM



Page 4

Item ID:

D205-634-041

Accept



Setup Start

Stop



Revision ID:

Item Name:

Replacement Skidtube

Start Date:

8/25/2010

Start Otv: 1.00

Required Date: 9/3/2010 Req'd Qty: 1.00

Date:

Cust Item ID: Customer:

Reference:

Approvals:

QC:

Process Plan:

Date: Tooling:

SPC (Y/N):

Date: Date:

Start Run

Stop

Sequence ID/

Work Center ID

150

Operation Description

QC10- Inspect visual per QSI004- ground welds

Memo

Set Up/ Run Hours

Tool ID

Tool # Plan Code

Reject Accept **Qty** Oty

Reject Number

Insp. Stamp

Quality Control

160

QC

QC5- Inspect part completeness to step on W/O

0.00

0.00

Quality Control

170

HandFinish

Hand Finishing

Pressure Wash per QSI005 4.3

Memo

0.00

Memo

0.00

Re-alodine tube as per QSI 005 section 4.1.2.1 do not acid etch and leave fwd cap out of solution.

BR10.9-13 D.

Dart Ae	rospace	Lia							,
W/O:			W	ORK ORDER CHANGE	S				
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Work Order ID 61421

Wednesday, August 25, 2010 8:53:20 AM



Page 5

Item ID:

D205-634-041

Accept

Setup Start

Stop



Revision ID:

Item Name:

Replacement Skidtube

Start Date:

8/25/2010

Start Qty: 1.00

Required Date: 9/3/2010

Req'd Qty: 1.00



Cust Item ID: Customer:

Tool ID

BR 10-9-13.

Reference:

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Process Plan:

Date:

Date: **Tooling:**

SPC (Y/N):

Set Up/

Run Hours

Date:

Tool # Plan

Code

Date:

Start Run

Reject

Oty



Stop

Insp.

Stamp

Reject

Number

Sequence ID/ Work Center ID

180

Powdercoat

Powder Coating

Operation Description

QC:

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

m 114841

Memo

START TIME: OVEN TEMPERATURE

FINISH TIME:

0.00

0.00

Qty

Accept

190

QC

Quality Control

QC3- Inspect Part Finish

Memo

0.00 => M 10 10 9/13

0.00

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Page 6

Insp.

Wednesday, August 25, 2010 8:53:20 AM Item ID: D205-634-041 Accept Setup Start **Revision ID:** Stop Item Name: Replacement Skidtube **Start Date:** 8/25/2010 Start Qty: 1.00 **Cust Item ID:** Required Date: 9/3/2010 Req'd Qty: 1.00 **Customer:** Reference: Run Start Process Plan: Approvals: Date: Tooling: Date: Stop QC: Date:_____ SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Reject Tool # Plan Accept Reject Work Center ID Description **Run Hours** Qty Code **Qty** Number Stamp 200 0.00 HandFinish 0.00 Memo Hand Finishing 1-Install inserts & wearplates & Gaskets as per Dwg. D2580. Use a drop of Sikaflex on insert holes before installing wearplates A/R 000 Sikaflex-291 7/115100 Sikaflex expire date: 11/10 2-Coat D2594-3 O' rings with Petroleum Jelly and install on D2594-1 plugs as per Dwg D2580 3-Inspect for foreign object per QSI 024

4-Install 2855 Aft Cap as per Dwg D2580 and seal Fwd Step & Aft Cap with Sikaflex. Clean excess adhesive Sikaflex expire date: 1110 5-Wing Walk as per Dwg D2580 and QSI 005 4.4 Batch: 115028

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Work Order ID 61421

Wednesday, August 25, 2010 8:53:20 AM



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Item ID:

D205-634-041

Accept



Setup Start

Revision ID: Item Name:

Replacement Skidtube

Start Date:

8/25/2010

Start Qty: 1.00

Required Date: 9/3/2010

Req'd Qty: 1.00



Cust Item ID: Customer:

Reference:

Approvals:

Process Plan: QC:

Date: _____

Date: _____

Tooling:

0.00

0.00

0.00

SPC (Y/N):

Date: Date:

Stop

Start

Stop



Sequence ID/ **Work Center ID**

210

Quality Control

Operation Description

OC5- Inspect part completeness to step on W/O

Set Up/ **Run Hours**

Tool ID

Tool # Plan Code

Accept **Qty**

Run

Reject Qty

Reject Insp. Number Stamp

60/1/1/16 (I)

8 10/09/14

Memo

Inspect Aft Cap, Fwd Step and Wing Walk of work to Current Step Inspect for

Foreign objects per OSI 024

220

Packaging

Packaging

Packaging

Memo

Identify and pack for shipping as per PPPD205-634-041

230

Quality Control

QC21- Final Inspection - Work Order Release

0.00

Memo

10/09/16Hz

0.00

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W/O:			W	ORK ORDER CHA	NGES			7100		<u> </u>	
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Wednesday, August 25, 2010 8:53:26 AM

Work Order ID: 61421

Parent Item:

D205-634-041

Parent Item Name: Replacement Skidtube



Start Date: 8/25/2010

Required Date: 9/3/2010

Start Qty: 1.00

Required Qty: 1.00

Page 1

Comments:

IPP Rev:N□02.08.28□FP was QC5 in Step 27; Added QC5 to Step 30□KJ

IPP Rev P 10.02.19 per PAR09-043 EC verified by:DD

IPP Rev. O 06.02.28 Added paperwork EC

IPP Rev:P 07-07-09 SS Wearplates & Gaskets JLM

Manufactured

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D2580-1	IBI (88)	Manufactured	No			110	Each	5.0000	1	1			
										SAD	10	-09-	0

205 Skidtube bent detail

Location		<u>I</u>	oc Oty	Loc Code		
LG			4	B6095	3 ⇒	1
	57028		1			
	60956		1			
	61191		2			
ST046			1			
	59856		i			<u> </u>
		140	Each	81.0000	1	1

48

D2576-3

Step (maching detail)

Location	Loc Oty	Loc Code
LG	81	
46661	33	

52215

= BE 10/09/07

Dart Aerospace	Ltd
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Part No	•	PAR #:	Fault Cat	egory:	_ NCR: Yes	No DQ	\:	Date:	
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Wednesday, August 25, 2010 8:53:26 AM

Work Order ID: 61421 Parent Item: D205-634-041 Parent Item Name: Replacement Skidtube Start Date: 8/25/2010 Required Date: 9/3/2010 Start Qty: 1.00 Required Qty: 1.00 D2579 Manufactured No 140 Each 404.0000 20 20 Crossbolt Spacer Location Loc Qty Loc Code LG 404 57052 5 57348 - BE 10/09/07 58433 2 59113 122 60845 102 61199 169 D2855 Manufactured No 200 Each 77.0000 Cap Location Loc Qty Loc Code FP6 56613 ST026 76 50513 1 50770 28 51539 2 53791 45 AN3-5A Purchased No 200 Each 1,534.000 10/09/13 Bolt Location Loc Oty Loc Code ST350 1534 (105057 534

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Wednesday, August 25, 2010 8:53:26 AM

Work Order ID: 61421 Parent Item: D205-634-041 Parent Item Name: Replacement Skidtube Start Date: 8/25/2010 Required Date: 9/3/2010 Start Qty: 1.00 Required Qty: 1.00 AN960JD10L NAS1149D0332J Purchased No 200 Each 2,501.000 2 10/09/17 Washer Location Loc Qty Loc Code ST348 2501 110985 2501 ALS7-1032-130 Purchased No 200 878.0000 50 Each 50 Insert Location Loc Qty Loc Code FP M114723 X60 861 115079 861 ST282 17 113238 17 AN3C4A Purchased No 200 1,831.000 Each 50 50 10/09/13 **BOLT** Location Loc Qty Loc Code ST303 500 115438 500 V50 ST350 1331 114108 14 114416 12 114523 2 114941 303 115300 1000

Dart Ae	rospace	Ltd						,
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Work Order ID: 61421 D205-634-041 Parent Item: Parent Item Name: Replacement Skidtube Start Date: 8/25/2010 Required Date: 9/3/2010 Start Qty: 1.00 Required Qty: 1.00 AN960C10L NAS1149C0332 Purchased No 200 179.0000 50 Each 50 Al 10/09/13 washer Location Loc Qty Loc Code ST245 179 X50 107534 29 MU15000 109545 78 111548 72 D3566-13 Manufactured 200 Each No 26.0000 10/09/13 Gasket Location Loc Qty Loc Code FP012 26 18 69661 60209 8 D3566-5 Manufactured 200 30.0000 No Each Gasket Location Loc Qty Loc Code FP 22 60869 22

FP015

59158

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Wednesday, August 25, 2010 8:53:26 AM

Work Order ID: 61421 Parent Item: D205-634-041 Parent Item Name: Replacement Skidtube Required Date: 9/3/2010 Start Date: 8/25/2010 Start Qty: 1.00 Required Qty: 1.00 D3566-1 Manufactured No 200 Each 29.0000 10/09/13 Gasket Location Loc Qty Loc Code FP 1361656 60857 5 FP015 24 57715 2 60202 12 61215 10 D3564-11 Manufactured No 200 Each 17.0000 10/04/13 Wearshoe Location Loc Oty Loc Code FP019 17 4 <u>5</u>9941 60302 13 D3564-13 Manufactured 200 No Each 23.0000 Wearshoe Location Loc Qty Loc Code

23 11 12

FP17

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Work Order ID: 61421 Parent Item: D205-634-041 Parent Item Name: Replacement Skidtube Start Date: 8/25/2010 Required Date: 9/3/2010 Start Qty: 1.00 Required Qty: 1.00 D3564-9 Manufactured 200 20.0000 Each 41 10/04/13 Wearshoe Location Loc Qty Loc Code FP 55334 FP019 19 6 60236 13 D3564-5 Manufactured 200 Each 21.0000 Md 10109113 Wearshoe Location Loc Oty Loc Code FG 34806 FP19 57525 58709 FP-19 18 59157 6 60868 12 D2594-3 Manufactured 200 Each 267.0000 10/09/13 O-Ring, 205 Skidtube Location Loc Oty Loc Code FP 267 55546 19 58191 12 XIG 59358 236

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Work Order ID: 61421

Parent Item:

D205-634-041

Parent Item Name: Replacement Skidtube



Start Date: 8/25/2010

Required Date: 9/3/2010

Start Qty: 1.00

Required Qty: 1.00

D2594-1

Plug, 205 Skidt	ube

Manufactured	No

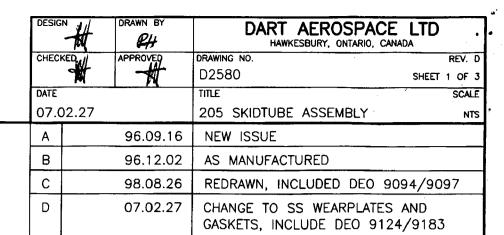
200

Each 355.0000

Location	<u>n</u>	Loc Oty	Loc Code		
FP		183			
	42807	112			
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FP14		172			
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	69110	157		x16	

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QTY -041	QTY -045	Part Number	Description
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	Х	D2580-045	SKIDTUBE ASSEMBLY
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1	1	D2500-1-190	EXTRUSION
1	1	D2576-3	STEP
20	24	D2579	CROSS BOLT SPACER
16	16	D2594-1	PLUG
16	16	D2594-3	O-RING
1	1	D2596	205 WEB
1	1	D2855	AFT CAP
1	1	D3564-5	WEARSHOE
1	1	D3564-9	WEARSHOE
1	1	D3564-11	WEARSHOE
1	1	D3564-13	WEARSHOE
2	2	D3566-1	GASKET
1	1	D3566-5	GASKET
1	1	D3566-13	GASKET
50	50	ALS7-1032-130	INSERT
		or AKS7-1032-130	
		or AKS4-1032-130	
		or AELS-1032-130	
50	50	AN3C4A	BOLT
2	2	AN3-5A	BOLT
50	50	AN960C10L	WASHER
2	2	AN960JD10L	WASHER

GENERAL NOTES:

- 1) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- ALL DIMENSIONS ARE IN INCHES
- INSERT D2596 WEB TO LOCATION SHOWN OFF AFT END OF SKIDTUBE AND BOND WEB INTO OUTER TUBE WITH NON-STRUCTURAL SIKAFLEX-241 ADHESIVE PER DART QSI 015 BEFORE BENDING. ENSURE HOLES LINE-UP
- 4) BEND AS A SMOOTH RADIUS STARTING WITH A MAXIMUM CENTERLINE RADIUS OF 60 AND ENDING WITH A MINIMUM RADIUS OF 30. A MAXIMUM REDUCTION OF 0.200 IN DIAMETER IS ALLOWABLE IN THE BENT PORTION OF THE TUBE.
- USE DART DRILL TEMPLATE TD2577-205 TO LOCATE AND DRILL Ø0.297 HOLES FOR WEARSHOE INSERTS. INSTALL ALS7-1032-130 PER SECTION D-D (50 PLACES) AFTER FINISH. INSTALL AN3C4A BOLTS AND AN960C10L WASHERS WITH SIKAFLEX-241/-291.
- WELDING TO BE DONE PER DART QSI 004.
- FINISH:

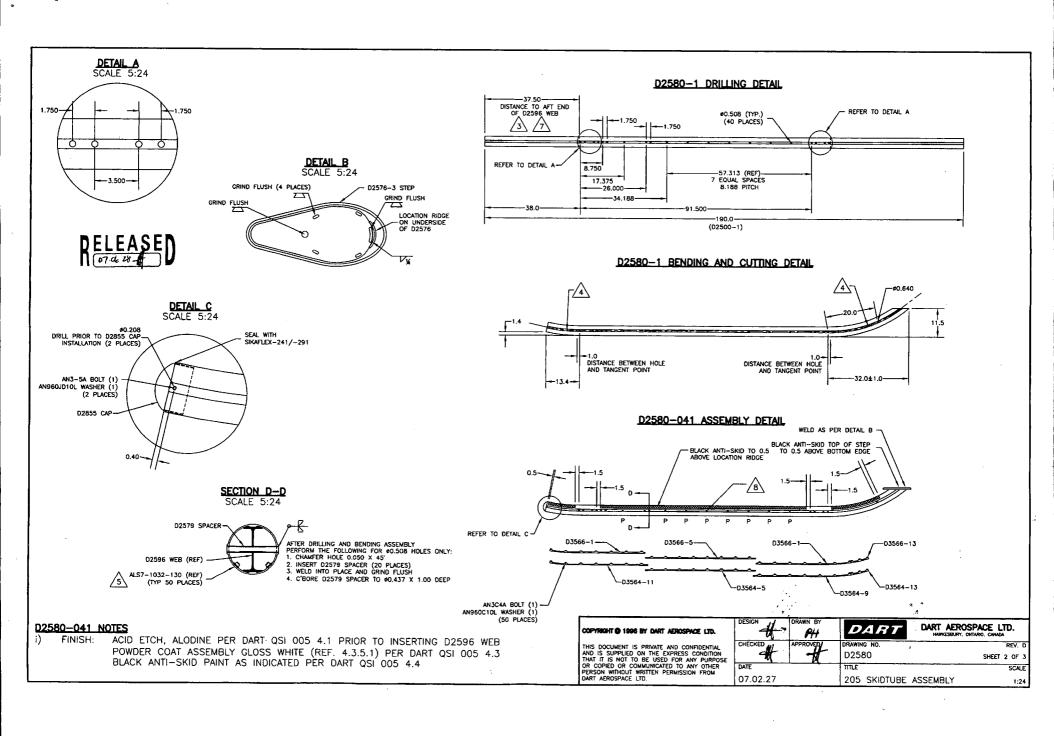
SEE NOTES ON

PAGE 2 FOR D2580-041 AND

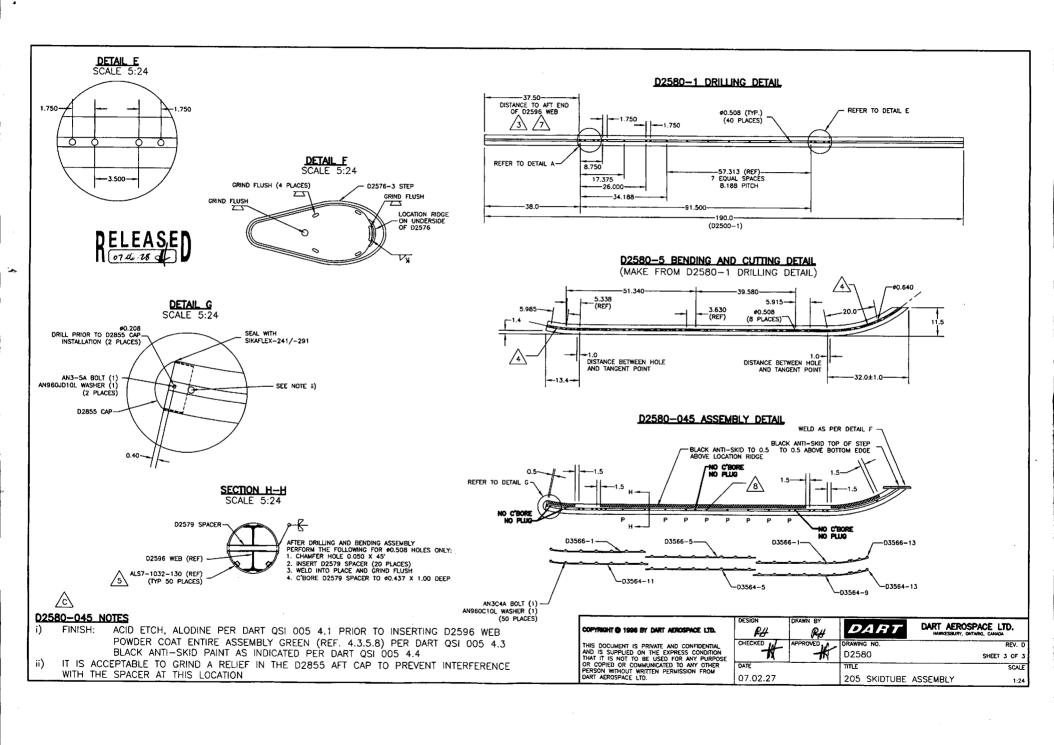
PAGE 3 FOR D2580-045

INSERT D2594-1 PLUG C/W D2594-3 O-RING IN HOLES MARKED 'P' (BOTH SIDES OF TUBE) AFTER FINISH (16 PLACES).

W/O:			W	ORK ORDER O	CHANGES			72.		
DATE	STEP	PRO	CEDURE CH	IANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
	 .									
Part No	•	PAR #:	Fault Ca	tegory:	N	ICR: Yes	10 DQ	A:	_ Date: _	
	R	esolution:	Disposit	ion:		A: N/C Clo	sed:		Date: _	·
NCR:		\	WORK OR	DER NON-CON	FORMANO	CE (NCR))			
DATE	STEP	Description of NC	Description of NC Corrective Action					ation	Approval	Approval
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W/O:			W	ORK ORDER CHANG	ES			
DATE	STEP	PRO	PROCEDURE CHANGE			Date Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No		PAR #:						
	Re	esolution:	Dispositi	on:	_ QA: N/C Clo	sed:	Date: _	
NCR:		1	WORK ORDER NON-CONFORMANC					
DATE	STEP	Description of NC			ion B	Verification		Approval
DAIL	SIEF	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector



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W/O:			W	ORK ORDER CHANG	ES					÷ ~~
DATE	STEP	PRO	ANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
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Part No	• •	PAR #:	Fault Cate	egory:	_ NCR	: Yes 1	o DQ	\:	_ Date: _	
	R	lesolution:	Dispositi	on:	_ QA:	N/C Clo	sed:		Date: _	
NCR:			WORK ORD	DER NON-CONFORMA	NCE	(NCR)				. ,
		Description of NC		Corrective Action Section	on B	·	Verific	ation	Approval	Approval
DATE	STEP	Section A		Initial Action Description Chief Eng Chief Eng		Sign & Date	Section		Chief Eng	QC Inspector
				•						

NCR:		W	ORK ORI	DER NON-CONFORMANC	E (NCR)			
		Description of NC		Corrective Action Section B		Verification	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	Approval QC Inspector
•					ari A			
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NO.	238	
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AWS D17.1.2001 QUALIFICATION TEST RECORD

Name: Barclan Ellicht
Job number: 61353
Part number: 5205-634.041
Description: 205 Kid tube
Welding Process: Tig[\rightarrow Mig[]
Base materiel: Aluminian
Current: AC[DC[]

TEST REQUIREMENTS AND RESULTS

Visual: Penetration: <u>UNACCEPTABLE</u>	pass[] fail[] pass[] fail[]
Cracks: Undercut: Pin holes: Overlap (cold lap) Porosity (surface): Coloration:	pass[] fail[] pass[] fail[] pass[] fail[] pass[] fail[] pass[] fail[]
Qualifier Sorchy Ellot	Date of Test Coupon 10.08.25 Date of Test Coupon 10.09.25

The above named individual is qualified in accordance with AWS D17.1.2001 to weld